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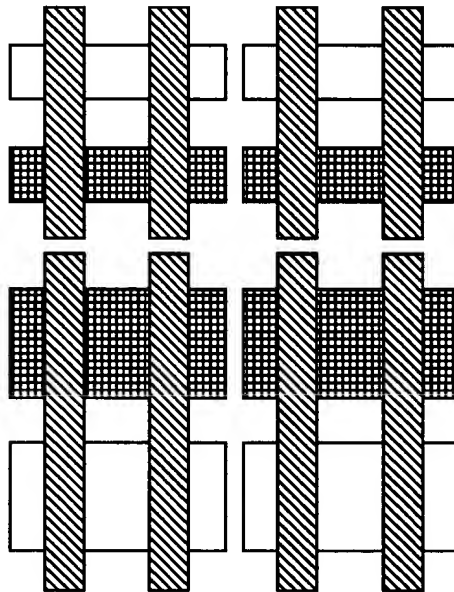
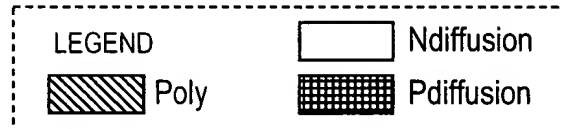
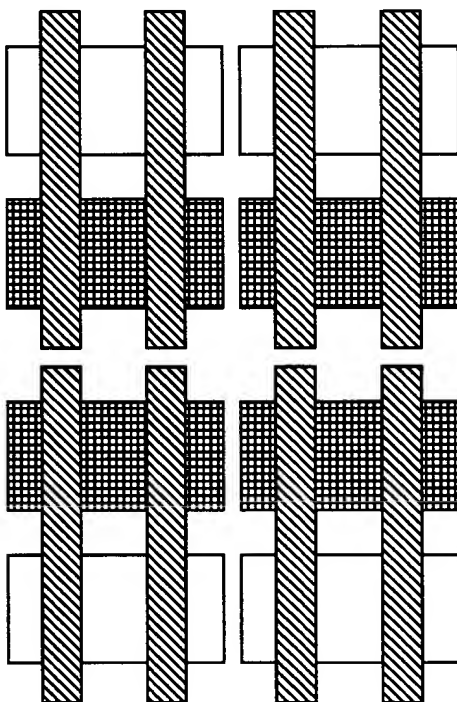
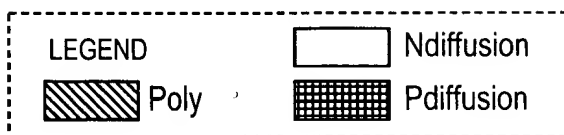


FIG. 1

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Traditional Approach

**FIG. 2**

REPLACEMENT SHEET

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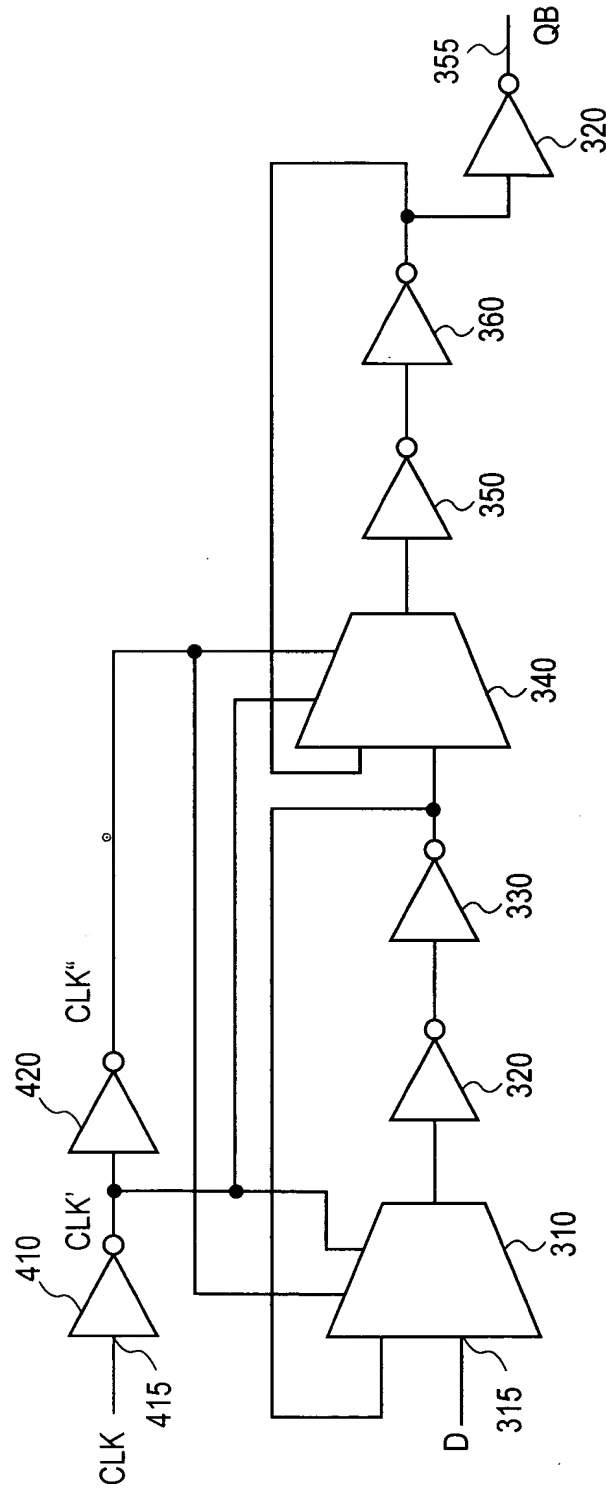


FIG. 3

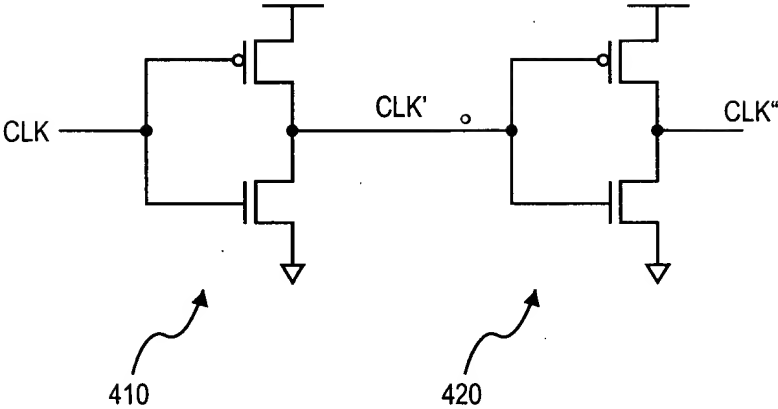


FIG. 4

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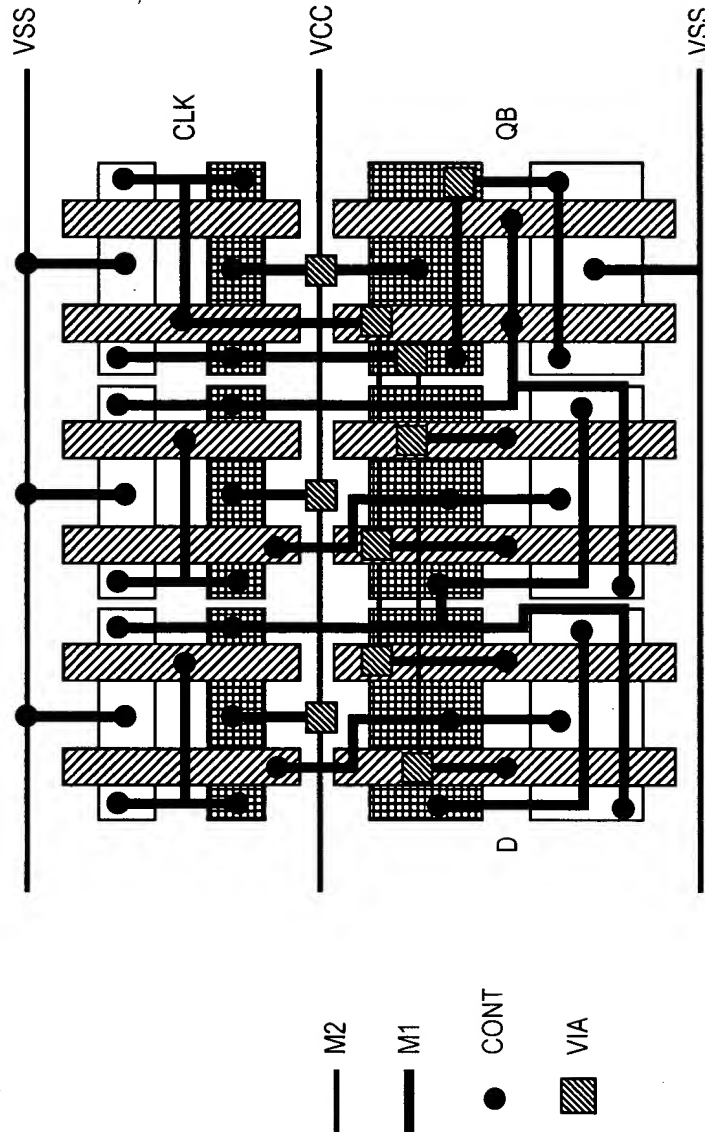


FIG. 5

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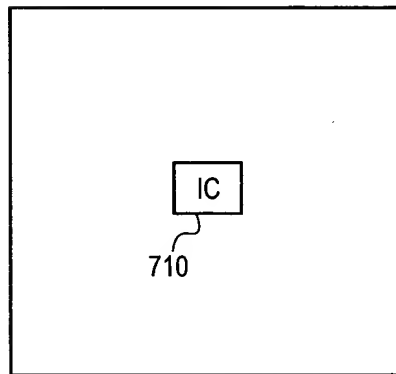
Table 1

Name	Clock Pin Power	Notes
Capacitance Improved	0.06 pJ	FIG. 2
Si Arc	0.13 pJ	SiArc CBA
Traditional	0.15 pJ	FIG. 2

pJ = pico joules

**FIG. 6**

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700

**FIG. 7**